

**Supplemental Specification
2005 Standard Specification Book**

SECTION 02982

BRIDGE CONCRETE GRINDING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Procedure for grinding new concrete bridge decks and approach slabs for precast concrete deck panel system or as shown on the plans.

1.2 RELATED SECTIONS

- A. Section 01452: Profilograph and Pavement Smoothness

PART 2 PRODUCTS

2.1 EQUIPMENT

- A. Provide and operate equipment utilizing diamond blades mounted on a self-propelled machine designed for grinding and texturing pavement.
- B. Do not use equipment that causes damage to the transverse or longitudinal joints.
- C. Use vacuuming equipment to remove residue and excess water.

PART 3 EXECUTION

3.1 GRINDING

- A. Grind concrete bridge deck until the surface of both sides of closure-pour and deck-panel joint are in the same plane and meet the smoothness required.
 - 1. Cure shear stud blockout locations for 24 hours before grinding.
 - 2. Meet the straight-edge requirements after grinding for all locations.
 - 3. Maximum depth of milling is ¼ inch.

- B. Provide a uniform finished texture.
- C. Perform grinding in a longitudinal direction.
 - 1. Begin and end grinding at lines normal to the bridge centerline.
- D. Do not damage the deck.
- E. Create a surface in a parallel, corduroy-type texture consisting of grooves between $\frac{1}{16}$ and $\frac{1}{8}$ inches wide.
 - 1. The peaks of the ridges need to be approximately $\frac{1}{16}$ inch higher than the bottom of the grooves.
- F. Maintain cross slope drainage.
- G. Provide uniform transverse and longitudinal slope of the concrete deck with no depressions or misalignment of slope greater than $\frac{1}{8}$ inch in 10 ft when tested with a 10-ft straightedge.
- H. All tailings from the grinding process become property and responsibility of the Contractor.

3.2 SMOOTHNESS TESTS

- A. Follow Section 01452.

END OF SECTION